

TX3110 1W Wire Wound High Precision Axial Resistor



TX3110

Electrical & Physical Specifications:

A-Length:	19.56mm (.770")
B-Diameter:	8.43mm (.332")
Lead Dimensions:	.032" dia. X 1.500" long
Max Watts @ 1% Tol:	1
Max Volts @ 1% Tol:	1000
Temperature Range:	-55°C. to +85°C
Resistance (Ω):	.1 Min. to 1.6 MEG Max.



TX Series Engineering Attributes:

RESISTANCE & TOLERANCES

You can select any Ohmic value from .01 Ω to 6M Ω (MegaOhm or MEG) with tolerances to $\pm 0.05\%$. For closer resistance tolerances refer to the Ultra Precision HR Series

TCR CHARACTERISTIC

Standard: $0 \pm 10 \text{ppm}/^\circ\text{C}$. for 100 Ω & higher.

Standard: $0 \pm 15 \text{ppm}/^\circ\text{C}$. for values below 100 Ω

*TCR is calculated between +25°C. & +100°C.

-For lower specific TCRs to $\pm 1 \text{ppm}/^\circ\text{C}$., please refer to the Ultra Precision HR Series to satisfy your specifications.

-For higher TCRs to $\pm 6000 \text{ppm}/^\circ\text{C}$., please refer to the Compensator Series to satisfy your specifications.

POWER VS. AMBIENT TEMPERATURE

All TX resistors are designed for full load based upon $\pm 1\%$ resistance tolerance providing the ambient temp (+) the rise in temp. due to self-heating, does not exceed +85°C. Refer to derating table below.

STABILITY VS. TIME

To $\pm 0.005\%/ \text{yr}$. @ 25°C. with no load.

REDUCTION OF THERMAL EMF USING COPPER TERMINALS:

Less than ± 3 microvolts/ $^\circ\text{C}$. emitted.

PROTECTIVE SEAL

Commercial plastic conforming coating.

MARKING (Identification)

PRC stamp, part type & name, Ω value & tolerance, physical size permitting.

INDUCTANCE

Std. TX resistors are inductively wound. Non-inductive windings are available, add suffix letter "N" in the part name.

***Please specify the ambient temperature span of your operation when placing your order.**

Type TX Derating Table:*

For $\pm 1\%$ resistance tolerance apply up to 100% of rated power to +85 Degrees Celsius.

For $\pm 1/2\%$ (0.5%) resistance tolerance apply up to 75% of rated power to +85 Degrees Celsius.
For $\pm 1/4\%$ (0.25%) resistance tolerance apply up to 50% of rated power to +85 Degrees Celsius.
For $\pm 1/10\%$ (0.1%) resistance tolerance apply up to 50% of rated power to +85 Degrees Celsius.
For $\pm 1/20\%$ (0.05%) resistance tolerance apply up to 35% of rated power to +85 Degrees Celsius.

* Percent of Rated Power vs. Combined Temp. of Self- Heating and Ambient (in °C).

Details

SKU	TX3110
Type	Axial-Lead
Length	19.56mm (.770")
Lead Dimensions	.032" dia. X 1.5" long
Diameter	8.43mm (.332")
TCR Char.	to 0 ± 10 ppm/°C. (between +25°C. and +100°C)
Temperature	-55°C. to +85°C.
Resistance	.1Ω to 1.6 MEG
Tolerance	to $\pm .05\%$
Stability	to $\pm .005\%$ /yr. at +25°C (No Load)
Max Watts	1
Max Volts	1000
Lead Free	Yes